

ABSTRACT OF THE DISCLOSURE

Provided is a method for the synthesis of 1,4-dicyclopethyl-1,3-butadiyne from CPA. Such butadiyne is prepared by oxidative coupling of cyclopropyl acetylene (CPA) using catalytic amounts each of copper (I)chloride and tetramethylethylenediamine(TMEDA) in isopropanol under aerobic conditions. The resulting butadiyne can serve as a fuel or a fuel additive for combustion in engines propelling motor vehicles, marine vessels, aircraft, rockets and other vehicles.